

PATENT ABSTRACTS OF JAPAN

(11)Publication number : **09-173803**

(43)Date of publication of application : **08.07.1997**

(51)Int.Cl.

B01F 1/00

A23L 2/00

B01F 5/06

(21)Application number : **07-353304**

(71)Applicant : **KANEBO FOODS LTD**

(22)Date of filing : **25.12.1995**

(72)Inventor : **TSUTSUI HIDEYA**

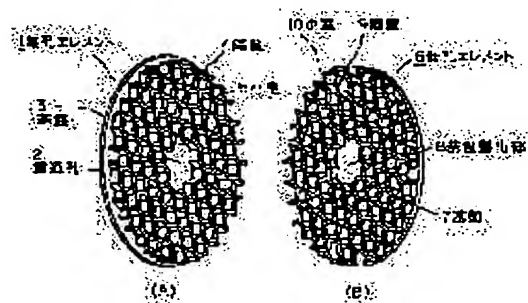
MINE KENJI

(54) MANUFACTURE FOR CARBONIC ACID SOLUTION

(57)Abstract:

PROBLEM TO BE SOLVED: To dissolve a large amount of carbon dioxide gas uniformly in a liquid by a method wherein an element having hole and element having no hole, in which a large number of open-type small chambers are formed, are provided, and carbon dioxide gas and liquid are introduced into a cell in which these elements are arranged so that the chambers thereof are oppositely oriented one to the other in nonaligned relationship.

SOLUTION: In an element having hole 1, partition walls 4 are formed on one side of base plate 3 having a through hole 2 in its center to form a large number of open-type small chambers 5, while in an element having no hole 6, a base-plate exposed part 8 is formed at the center of one side of a base plate 7 and partition walls 9 are formed around the part 8 to form a large number of open-type small chambers 10. These elements 1, 6 are arranged so that the side of the element 1 on which the partition walls 4 are formed is oriented oppositely to the side of the element 6 on which the partition walls 9 are formed in such a manner that the chambers 5 are not aligned with the chambers 10 to one another, thereby to define cells. And carbon dioxide gas and liquid is introduced into the cells through the through hole 2 to cause the gas and liquid to flow against the part 8 and pass successively through the chambers 5,



10 to dissolved the gas in the liquid.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office